

GYNANDROMORPHS IN HAWAIIAN BUTTERFLIES AND MOTHS

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FROM TIME TO TIME, if also not too often, notes about the occurrence of gynandromorphs in Lepidoptera are published. It may therefore be of interest to lepidopterists to get acquainted with two gynandromorphs which we collected very recently in the field.

One of them is a 1/4 gynandromorph of *Strymon bazochii* Godart, a lycaenid butterfly, the other a 1/2 gynandromorph of *Hedylepta accepta* (Butler), a pyralid moth.

The *Strymon* specimen is as the illustration shows 3/4 ♂ and 1/4 ♀. This appears especially in the characteristic sexual dimorphism of the hindwings (upper and under sides).

The *Hedylepta* specimen is clearly 1/2 ♂ on the left side and 1/2 ♀ on the right side; however, the antennae are ♀ on the left side and ♂ on the right side.

The genitalic dissection of the *Strymon* showed it to be entirely on the male side. There was not the slightest deviation from the normal structure.

The *Hedylepta* had normal female genitalia.

Smith and Perry, 1967, differentiate between gynandromorphs and intersexes, the former being a chromosomal variation, the latter specimens where part of the organism develops toward the opposite sex the chromosomes being normal for the intended sex. Intersexes can be caused by some internal parasites, as infection by *Mermis*, a nematod, or abnormal temperatures.

In the above reported case it will regrettably not be possible to say if we were dealing with real gynandromorphs or intersexes. As, however, nematod infections are often reported in insects in tropical climates it may well be that such infection was the reason for the irregularities in our specimens.

REFERENCES

- SMITH, W. W. and V. G. PERRY. 1967. Intersexes in *Culicoides* spp. caused by Mermithid parasitism in Florida. *J. Econ. Ent.* 60: 1025-1027.



Fig. 1.—*Strymon bazochii* Godart. Hawaii: Oahu, Upper Aina Haina, 13 May 1976, Riotte/Perry.

Fig. 2.—*Strymon bazochii* Godart. Hawaii: Oahu, Upper Aina Haina, 13 May 1976, Riotte/Perry.

Cover Illustration:

Fig. 3.—*Hedylepta accepta* (Butler). Hawaii: Oahu, Waianae Mts., 21 May 1976, A. E. Perry.